





METHOD FOR COATING METALLIC SURFACES AND USE OF THE SUBSTRATES COATED IN THIS MANNER






Patent number: WO02070782
Publication date: 2002-09-12
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Classification:
- international: **C23C22/18; C23C22/36; C23C22/73; C23C22/05; C23C22/73;** (IPC1-7): C23C22/18; C23C22/36
- european: C23C22/18E; C23C22/36D; C23C22/73
Application number: WO2002EP02290 20020301
Priority number(s): DE20011010834 20010306

Also published as:

 WO02070782 (A3)
 EP1390564 (A3)
 EP1390564 (A2)
 US2004129346 (A1)
 DE10110834 (A1)

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Cited documents:

 DE4013483
 DE19500562
 WO9322474
 DE4210513
 EP0564287

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Abstract of WO02070782

The invention relates to a method for coating metallic surfaces by a manganese-zinc phosphatizing process, using an aqueous phosphatizing solution, in which nickel is deliberately not added. Said method is characterized in that the zinc: manganese weight ratio of the phosphatizing solution is maintained in the region of between 0.05: 1 and 0.99: 1 and that the phosphatizing solution has the following contents: between 0.05 and 5 g/l zinc, between 0.075 and 5.2 g/l manganese and between 0.008 and 0.050 g/l copper and/or hexafluoride complexes of titanium, hafnium and/or zirconium totalling between 0.002 and 0.5 g/l, calculated as F6. The invention also relates to the use of the metal parts coated in this manner.

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